1-29. (Canceled)

30. (New) A photochromic lens having a visible colored appearance, the

photochromic lens comprising a multi-layer thin film coating applied on outer surface thereof,

the multi-layer thin film coating comprising a plurality of dielectric layers, wherein the film

coating reflects an amount less than about 15% of spectral ultraviolet radiation in a range

between 315 and 400 nm and reflects an amount equal to or greater than about 10% of light in

the visible spectrum in a range between 410 and 800 nm so that the lens exhibits the visible

colored appearance.

31. (New) The lens of claim 30, wherein the colored appearance comprises a mirror

like appearance.

32. (New) The lens of claim 30, wherein the colored appearance comprises a white

silver like appearance.

33. (New) The lens of claim 30, wherein the multi-layer thin film coating reflects less

than 6% of spectral ultraviolet radiation.

34. (New) The lens of claim 30, wherein the plurality of dielectric layers comprises

SiO2 layers.

35. (New) The lens of claim 30, wherein the plurality of dielectric layers comprises

TiO2 layers.

2

Application No. 10/810,049
Amendment dated February 5, 2008
Reply to Office Action of August 0, 200

Reply to Office Action of August 9, 2007

36. (New) The lens of claim 30, wherein the plurality of dielectric layers are arranged

to alternate low and high refractive indices.

37. (New) The lens of claim 30, wherein the plurality of dielectric layers comprises

ZrO2 lavers.

38. (New) The lens of claim 30, wherein the plurality of dielectric layers comprises

twelve layers.

39. (New) The lens of claim 38, wherein the multi-layer thin film coating comprises

a twelve layer arrangement comprising alternating TiO2 and SiO2 layers.

40. (New) The lens of claim 38, wherein the multi-layer thin film coating comprises

a twelve layer arrangement comprising TiO2, SiO2 and ZrO2 layers.

41. (New) The lens of claim 30, wherein the plurality of dielectric layers comprises

four layers.

42. (New) The lens of claim 30, wherein the plurality of dielectric layers comprises

up to 100 layers.

43. (New) The lens of claim 30, the lens having an activation value of greater than

about 25%.

44. (New) The lens of claim 30, the lens having an activation value of greater than

about 40%.

3

Application No. 10/810,049 Amendment dated February 5, 2008

Reply to Office Action of August 9, 2007

45. (New) The lens of claim 30, the lens having an activation value of greater than

about 90%.

46. (New) The lens of claim 30, the lens having an activation value of greater than

about 297%.

47. (New) The lens of claim 30, the lens having an activation value of approximately

the activation value of the uncoated photochromic lens.

48. (New) The lens of claim 39, wherein the dielectric layers are selected and

arranged in a sequence: TiO2, SiO2, TiO2, SiO2, TiO2, SiO2, TiO2, SiO2, TiO2, SiO2, TiO2,

SiO2, so as to obtain a silver mirror like appearance of the lens.

49. (New) The lens of claim 40, wherein the dielectric layers are selected and

arranged in a sequence: TiO2, SiO2, TiO2, SiO2, ZrO2, SiO2, TiO2, SiO2, TiO2, SiO2, ZrO2,

SiO2, so as to obtain a silver mirror like appearance of the lens.

50. (New) The lens of claim 30, wherein the lens is a sunglass lens.

51. (New) A method of creating a colored photochromic lens, the method comprising

applying a plurality of dielectric layers onto the outer surface of a photochromic lens wherein the

plurality of dielectric layers collectively reflect an amount less than about 15% of spectral

ultraviolet radiation in a range between 315 and 400 nm and reflect an amount equal to or greater

than about 10% of light in the visible spectrum in a range between 410 and 800 nm so that the

lens exhibits a visible colored appearance.

4

Application No. 10/810,049 Amendment dated February 5, 2008 Reply to Office Action of August 9, 2007

- (New) The method of claim 51, further comprising applying a twelve layer arrangement comprising alternating TiO₂ and SiO₂ layers.
- 53. (New) The method of claim 52, further comprising applying twelve layers of TiO2 and SiO2 on the photochromic lens in a sequence: TiO2, SiO2, TiO2, TiO2, SiO2, TiO2, TiO2, SiO2, TiO2, TiO2, SiO2, TiO2, TiO2, SiO2, TiO2, TiO2,
- (New) The method of claim 51, further comprising applying a twelve layer arrangement comprising TiO₂, SiO₂ and ZrO₂ layers.
- 55. (New) The method of claim 54, further comprising applying twelve layers of TiO2, SiO2 and ZrO2 on the photochromic lens in a sequence: TiO2, SiO2, TiO2, SiO2, ZrO2, SiO2, TiO2, SiO2, TiO2, SiO2, ZrO2, SiO2, TiO2, TiO2, SiO2, TiO2, TiO2, SiO2, TiO2, TiO2,